STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0957-AOP-R22 AFIN: 46-00005

1. PERMITTING AUTHORITY:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Cooper Tire & Rubber Company 3500 East Washington Road Texarkana, Arkansas 71854

3. PERMIT WRITER:

Elliott Marshall

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Tire Manufacturing (except Retreading)

NAICS Code: 326211

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
12/4/2023	Minor Mod/Modification	-Install Server Room Generator (SN-
		146).
		- Revise the allowable VOC content
		for paints used in the Tire Inspection
		and Repair Area.

6. REVIEWER'S NOTES:

This application was submitted to:

1. Install six new radial green tire spray booths as part of GR-04, to replace Spray Booths #1 through #6. The new spray booths will replace the existing spray booths

AFIN: 46-00005 Page 2 of 12

and will provide improved emissions control. One existing spray booth (Spray Booth #8) will remain. The potential throughput and emissions will remain unchanged.

- 2. Revise Specific Condition #32 and #34 to correctly reference the appropriate limits in 40 C.F.R. §60.542 (a)(5): 1.2 grams VOC/tire/month from inside green tire spray and 9.3 grams VOC/tire/month from outside green tire spray, respectively.
- 3. Install a new 204 HP, natural gas-fired, Server Room Generator (SN-146).
- 4. Revise the allowable VOC content for paints used in the Tire Inspection and Repair Area as the result of an inspection finding that showed some paints exceeded the current permit threshold.
- 5. Change out the mixer body for Mixer #3. The new mixer body will be a like for like replacement, and will not change the size of the mixer; there is no increase in actual or potential emissions associated with this change.

Permitted emission rates are increasing by 0.1 tpy PM/PM₁₀, 0.1 tpy SO₂, 3.5 tpy VOC, 0.5 tpy CO, 0.4 tpy NO_x, and 0.01 tpy Xylene/Total HAPs.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

All requirements have been met for the CAO (LIS: 22-090) discussed in the previous SOB for permit No. 0957-AOP-R21; the CAO was closed May 15, 2023.

This facility was last inspected August 10, 2023. The following areas of concern were noted:

- 1. Specific Condition #74 the VOC content of Repair Paint shall not exceed 0.10 lb/gal.
- 2. SDS viewed during inspection revealed repair paint product #13109 VOC content of 0.11 lb/gal and repair paint product #15474 (white marking paint) VOC content of 4.0 lb/gal.

This permitting action serves to correct the areas of concern found during the August 10, 2023 compliance inspection.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N If yes, were GHG emission increases significant? N
- b) Is the facility categorized as a major source for PSD? Y
- Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD.

AFIN: 46-00005 Page 3 of 12

Emission increases associated with this permit revision are below PSD significant emission rates (SER).

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
GR-03 & GR-04	All Listed	NSPS Subpart BBB
SN-89	Opacity and SO ₂	NSPS Subpart Dc
SN-140 and SN-141	HAP	NESHAP ZZZZ
	No specific standards have	NSPS Subpart Dc
SN-55a	been set for natural gas-fired sources	NESHAP Subpart DDDDD
SN-133	VOC	PSD
SN-144	VOC	PSD
SN-145	CO, NO _x , PM	NESHAP ZZZZ, NSPS IIII
SN-146	CO, NO _x , VOC	NESHAP ZZZZ, NSPS JJJJ

10. UNCONSTRUCTED SOURCES:

Unconstructed Source	Permit	Extension	Extension	If Greater than 18 Months without	
	Approval	Requested	Approval	Approval, List Reason for	
	Date	Date	Date	Continued Inclusion in Permit	
N/A					

11. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? N (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Rule 18 requirement.)

If yes, are applicable requirements included and specifically identified in the permit? N/A If not, explain why.

For any requested inapplicable regulation in the permit shield, explain the reason why it is not applicable in the table below.

Source Inapplicable Regulation		Reason
	N/A	

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source

AFIN: 46-00005 Page 4 of 12

level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
SN-144	VOC	Since SN-144 is not a "large pollutant-specific emission unit" as defined in Part 64, CAM is not addressed until the first renewal application after project approval.

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

Emergency equipment emissions are included in the evaluation of HAPs but are not modeled per ADEQ guidance.

The facility emits HAPs related to incomplete combustion and rubber processing.

Chargeable HAPs included in Fee Sheet calculations - Methylene Chloride and Tetrachloroethene.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Division of Environmental Quality has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Hourly totals were updated to include the addition of SN-146, but no modeling was performed because SN-146 is an emergency generator.

AFIN: 46-00005 Page 5 of 12

	TLV	PAER (lb/hr) =	Proposed	
Pollutant	(mg/m^3)	$0.11 \times \text{TLV}$	lb/hr	Pass?
2-Chloroacetophenone	0.316	0.0348	8.55E-04	Pass
4-Methyl-2-Pentanone (MIBK)*	81.900	9.0090	5.51	Pass
Acrolein	0.229	0.0252	7.22E-02	Model
Dibenzofuran	0.200	0.0220	2.59E-03	Pass
Formaldehyde	1.5	0.165	0.1335	Pass
Hexachlorobutadiene	0.213	0.0234	3.29E-02	Model
Lead (Pb) Compounds	0.050	0.0055	6.24E-03	Model
Xylene*	434.192	47.7611	4.2713	Pass
Arsenic	0.010	0.0011	6.87E-05	Pass
Beryllium	0.00005	0.0000055	2.80E-06	Pass
Chromium Compounds	0.5	0.055	2.57E-02	Pass
Cadmium	0.002	0.00022	9.29E-04	Model
Cobalt	0.020	0.0022	1.71E-03	Pass
Manganese	0.020	0.0022	1.03E-03	Pass
Mercury	0.010	0.0011	5.13E-04	Pass
Nickel (Ni) Compounds	0.100	0.0110	2.31E-02	Model
Selenium	0.200	0.0220	2.56E-03	Pass
POM/PAH - Total	0.200	0.0220	2.28E-04	Pass

^{*}Total emissions > 10 tpy

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Division of Environmental Quality to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration (μg/m³)	Pass?
Acrolein	2.0	1.65269	Yes
Cadmium	0.02	0.00278	Yes
Hexachlorobutadiene	2.13	0.42553	Yes
Lead (Pb) Compounds	0.5	0.03752	Yes
Nickel	1.0	0.47504	Yes

a) H₂S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

^{2&}lt;sup>nd</sup> Tier Screening (PAIL)

AFIN: 46-00005 Page 6 of 12

If exempt, explain: No H₂S emissions

15. CALCULATIONS:

SN	Emission Factor Source	Emission Factor and units	Control Equipment Type	Control Equipment Efficiency	Comments
GR-01	RMA Testing AP-42 Table 1.4- 1,2,3,4	lb/lb rubber: 4.02E-04 PM 3.91E-05 VOC lb/lb silica: 1.69E-02 VOC RTO Nat. Gas Factors 7.6 lb PM/MMCF 0.6 lb SO ₂ /MMCF 5.5 lb VOC/MMCF 84 lb CO/MMCF 100 lb NO _x /MMCF	Baghouse RTO – Mixer #8 and #9 only	PM 95% VOC 98% destruction 85% capture	30 ton/hr; 220,000 tpy standard rubber throughput 0.85 ton/hr;4,100 tpy silica throughput for mixer #7 2.40 ton/hr;11,500 tpy silica throughput for mixer #9 1.88 ton/hr; 9,000 tpy silica throughput for mixer #8 3.78 ton/hr; 22,680 tpy silica throughput for Mixer #10 Master pass Silica VOC – 65.7% Second&Final Pass Silica VOC – 34.3% 65.7% of VOC emissions are released in the master pass of rubber processed with uncoupled silica. Only the master pass emissions are captured and controlled by the RTO, with an estimated 85% capture efficiency. RMA is the Rubber Manufacturers Association.
GR-03	MSDS NSPS	PM: 8% solids 10% overspray VOC: 7.5 gr/tread	None	None	
GR-04	Stack Test	PM: 0.0015 lb/tire VOC: 2 gr/tire	None	None	
GR-05	RMA	PM: 0.05 lb/tire VOC: 1.59E-2 lb/lb rubber	Baghouse	95.8%	
GR-06	RMA	PM: 0.10 lb/tire VOC: 1.59E-2 lb/lb rubber	Baghouse	99.2%	
GR-08	MSDS	VOC: 6.52 lb/gal ink 9.11 lb/gal thinner	None	None	
SN-07	AP-42 11.24-2	PM: 0.12 lb/ton	Baghouse	95%	
SN-53	AP-42	Standard Natural Gas	None	None	uncontrolled
SN-55a	AP-42	Standard Natural Gas	None	None	Low NO _x burners

AFIN: 46-00005 Page 7 of 12

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	Emission	Emission Factor and	Control	Control	
SN	Factor	units	Equipment	Equipment	Comments
	Source	units	Type	Efficiency	
	AP-42		• •		
SN-59	Table 6.1.4	0.20 PM/ton Carbon Black	Dust Collector	95%	
	AP-42				
SN-60		0.20 PM/ton Carbon Black	Dust Collector	95%	
	Table 6.1.4	TIO C			
SN-67	MSDS	VOC: 6.26 lb/gal (solvent)	None	None	
311-07	MSDS	6.28 lb/gal (cement)	None	None	
SN-68		VOC:			Paint Density 10.0
	MSDS	6.26 lb/gal (solvent)	None	None	_
SN-106		4.5 lb/gal (paint)			lb/gal
		Standard Natural Gas 97.3 MMBTU/hr			
		8760 hrs/yr (NG)			
		95.4 MCF/hr (NG)			
SN-89	AP-42	Nat. Gas Factors	None	None	Low NO _x burners
511 07	111 72	7.6 lb PM/MMCF	Tione	Tione	Low 110 _x burners
		0.6 lb SO ₂ /MMCF 5.5 lb VOC/MMCF			
		84 lb CO/MMCF			
		50 lb NO _X /MMCF			
					40 ton/hr; 307,600 tpy
		VOC			standard rubber throughput
SN-108	RMA	1.1E-04 lb lb rubber	None	None	8.9 ton/hr; 47,280 tpy silica throughput
		2.57E-02 lb/lb silica			70% of rubber, milled
					33% silica rubber milled
					40 ton/hr; 307,600 tpy
		VOC			standard rubber throughput 8.9 ton/hr; 47,280 tpy silica
SN-109	RMA	1.23E-05 lb/lb rubber	None	None	throughput
		2.79E-04 lb/lb silica			100% of mixed and silica
					rubber is extruded
CNI 110	DMA	40 ton/hr	Mana	None	
SN-110	RMA	40% of rubber, calendered 5.59E-5 lbcmpd#2/lbrubber	None	None	
SN-111	RMA	VOC: 3.37E-4 lb/lb rubber	None	None	
SN-121	MSDS	VOC 7.5 lb/gal	None	None	
SN-140	1,1,5,0,0	See Section 3.3	1.0110	1.5110	5001 / 1
and	AP-42	Tables	None	None	500 hrs/yr each SN-140 2 MMBtu/hr
SN-141	A1 -+4	3.3-1 and 3.3-2	None	TAOHE	SN-140 2 WWBtu/hr
SIN-141					
	NICDC III	<u>lb/hp-hr</u>			
	NSPS IIII,	NO _x : 1.87E-02			
		CO: 1.52E-02	Diesel		8,760 hr/yr, 155 hp.
SN-145		PM ₁₀ : 8.82E-04	Particulate	None	
D14-143	AP-42		Filter	TOLL	7,000 Btu/scf conversion
	Chapter	lb/MMBtu	1.11161		factor per AP-42
	3.3	VOC:3.60E-01			
		SO ₂ : 2.90E-01			
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AFIN: 46-00005 Page 8 of 12

SN	Emission Factor Source	Emission Factor and units	Control Equipment Type	Control Equipment Efficiency	Comments
SN-146	NSPS JJJJ, AP-42	lb/MMBtu PM/PM ₁₀ : 7.71E-05 SO ₂ : 5.88E-04 VOC: 2.73E-01	None	None	204 hp, 500 hr/yr
	Chapter 3.2-2	CO: 1.09 NO _X : 0.847			

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
133	VOC	25A	Once every 60	Ensure PSD
133	Opacity	9	months	compliance
134	VOC	25A	Once every 60 months	Ensure destruction efficiency of RTO
144	VOC CO NOx	25A 10 7E	Once every 60 months	Ensure PSD compliance

17. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
133	RTO Minimum *Temperature - 1500°F	Device to continuously measure and record temperature	Continuously while operating	N
134	RTO Minimum *Temperature - 1500°F	Device to continuously measure and record temperature	Continuously while operating	N
144	RTO Minimum *Temperature - 1500°F	Device to continuously measure and record temperature	Continuously while operating	N

AFIN: 46-00005 Page 9 of 12

18. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

Source	Source Recorded Item Lin		Frequency	Report (Y/N)
Plantwide	Final Rubber Processed (Mixed & Imported)	307,600 tons/yr	Monthly	Y
SN-51	Silica Usage	4,100 tons/yr	Monthly	Y
SN-134	Silica Usage	11,500 tons/yr	Monthly	Y
SN-133	Silica Usage	9,000 tons/yr	Monthly	Y
SN-144	Silica Usage	22,680 tons/yr	Monthly	Y
SN-133, SN-134, SN-144	Temperature of RTO	≥1500°F	Continuously while operating	N
SN-144	Rubber VOC content	3.91E-05 lb VOC/lb rubber	Monthly	N
SN-133, SN-134, SN-144 RTO	Description of why the RTO Bypass Stack was opened, reason for the outage of the RTO system, and the corrective actions taken	The permittee may only operate the RTO Bypass Stack RTO has an emergency outage, equipment malfunction, or is undergoing preventative maintenance.	Whenever the RTO Bypass Stack is opened	Y
GR-03, GR-04, GR-05, GR-06	Treads/Tires Processed	16,000,000 treads/yr	Monthly	Y
GR-03	VOC Emissions per Tread	7.5 grams/tread/month	Monthly	Y
GR-04	VOC Emissions of Inside Paint	1.2 grams/tread/month	Monthly	Y
UK-04	VOC Emissions of Outside Paint	9.3 grams/tread/month	Monthly	Y
	Ink Throughput	2,800 gallons/yr	Monthly	Y
GR-08	Solvent Throughput	400 gallons/yr	Monthly	Y
	Ink/Thinner VOC Content	Listed in Table	Annually	N
SN-55a Type of fuel burned and quantity of fuel burned		-	Monthly	Y

AFIN: 46-00005 Page 10 of 12

Source	Recorded Item	Limit (as established in permit)	Frequency	Report (Y/N)
SN-59 SN-60	Carbon Black	80,000 Tons Total both sources	Monthly	Y
	Cement	1,000 Gallons	Monthly	Y
SN-67	Solvent	1,800 Gallons	Monthly	Y
311-07	Solvent & Cement VOC Content	Listed in Table	Monthly	N
	Solvent	1,500 Gallons	Monthly	Y
SN-68,	Paint	1,500 gallons	Monthly	Y
SN-106	Solvent & Paint VOC Content	Listed in Table	Annually	N
SN-121	All HAP containing material usage	1.17 tpy Glycol ethers 0.09 tpy Toluene 0.09 tpy Xylene	Monthly	Y
SN-140 and SN-141	Hours of operation	500 hours per calendar year	Per Event	Y
SN-145	Maintenance Conducted	N/A	Per Event	N
SN-146	Hours of operation	500 hours per calendar year	Monthly	N
511-140	NSPS JJJJ records	Records required by 60.4245(a)(1-4)	As Required	N

19. OPACITY:

SN	Opacity %	Justification	Compliance Mechanism
GR-01, GR-03 through GR-06, and GR-	20	Division of Environmental Quality Guidance	Weekly observation Daily during off-line maintenance
GR-01 with RTO operating	5	Division of Environmental Quality Guidance	Weekly observation
07	20	Division of Environmental Quality Guidance	Weekly observation
53	5	Division of Environmental Quality Guidance-NG	Burn only Nat. Gas

AFIN: 46-00005 Page 11 of 12

SN	Opacity %	Justification	Compliance Mechanism
55a	5	Division of Environmental Quality Guidance for natural gas	EPA Method 9 Burn only Nat. Gas
89	5	Division of Environmental Quality Guidance - NG	Burn only Nat. Gas
140 and 141	20%	Division of Environmental Quality Guidance	Annual Observation
145	20%	Division of Environmental Quality Guidance	Annual Observation
146	5%	Division of Environmental Quality Guidance	Annual Observation, only use natural gas as fuel

20. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

	Caora A		Emissio	ons (tpy)	
Source Name	Group A Category	VOC	PM ₁₀	HA	APs
	Category	VOC	1 1/11()	Single	Total
Two (2) 10,000 gallon Naphthenic Petroleum Oil Storage Tanks #1 and #4	A-3	0.092			
10,000 gallon Naphthalic Petroleum Oil Storage Tank #6	A-3	0.038			
Three (3) 10,000 gallon Aromatic Petroleum Hydrocarbon Storage Tanks #8, #9, and #10	A-3	.0009			
10,000 gallon Naphthenic Process Oil Blend Tank #29	A-3	0.005			
Dust Ring Lube Oil Tank #12	A-3	0.02			
500 gallon Fire Pump Tank #1	A-3	0.0001			
500 gallon Fire Pump Tank #2	A-3	0.0001			
Phenyldiamine Tank #7 (10,000 gallons)	A-3	0.038			
Steric Acid Tank #30 (10, 000 gallons)	A-3	0.010			
Hydrocarbon Resin Tank #31(10,000 gallons)	A-3	0.012			
Group A-3 Total		0.21			
Quality Control and Materials testing Lab	A-5	0.02			0.00002
Group	Group A-15 Total				0.00002

AFIN: 46-00005 Page 12 of 12

	Caova A	Emissions (tpy)			
Source Name	Group A	VOC	DM.	HAPs	
	Category	VOC	PM ₁₀	Single	Total
White Side Wall Protective Painters	A-9	0.25	0.28		0.062
Mold and Bladder Lube Application	A-9	0.0013			0.003
Group	A-19 Total	0.26	0.28		0.065
Two (2) 30,000 gallon Fuel Oil Storage Tanks – Empty – Not in service	A-13	< 0.01			
Air Compressor #1			0.04		
Air Compressor #2			0.04		
Process Water #1			0.113		
Process Water #2			0.113		
Process Water #3			0.113		
#1 HVAC Tower			0.082		
#2 HVAC Tower			0.082		
#3 HVAC Tower			0.265		
#4 HVAC Tower			0.265		
Group A-13 Total			1.11		

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #	
0957-AOP-R21	



Facility Name: Cooper Tire & Rubber Company

Permit Number: 0957-AOP-R22

AFIN: 46-00005

\$/ton factor	28.14	Annual Chargeable Emissions (tpy)	1398.59
Permit Type	Modification	Permit Fee \$	1000
Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or Minor	_		
Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	4.1		
Initial Title V Permit Fee Chargeable Emissions (tpy)			

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		38.7	38.8	0.1		
PM_{10}		38.7	38.8	0.1	0.1	38.8
PM _{2.5}		0	0	0		
SO_2		2.7	2.8	0.1	0.1	2.8
VOC		1265	1268.5	3.5	3.5	1268.5
со		97.2	97.7	0.5		
NO_X		78	78.4	0.4	0.4	78.4
Lead Compounds		1.12E-02	1.12E-02	0		

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
МІВК		21.1	21.1	0		
Xylene		21.21	21.22	0.01		
Total HAPs		115.43	115.44	0.01		
Methylene Chloride	✓	8.06	8.06	0	0	8.06
Tetrachloroethene	✓	2.03	2.03	0	0	2.03